

LISTING OF CLAIMS

The following listing of claims replaces all prior versions:

- 1-31. Cancelled.
32. (Previously Presented) A graft comprising (1) a bioabsorbable filament having a central lumen; and (2) cells capable of initiating hair follicle neogenesis comprising epidermal cells and dermal cells disposed within the lumen.
33. (Previously Presented) The graft of claim 32, wherein the dermal cells are obtained from skin, hair follicles, dermal papilla, or dermal sheath.
34. (Previously Presented) The graft of claim 32, wherein the dermal cells are an aggregated clump of dermal cells.
35. (Previously Presented) The graft of claim 32, wherein the epidermal cells are obtained from skin, hair follicles, inner root sheath, outer root sheath, or matrix.
36. (Previously Presented) The graft of claim 32, wherein the central lumen has an interior wall.
37. (Previously Presented) The graft of claim 32, wherein the epidermal cells are adhered to the interior wall of the lumen.
38. (Previously Presented) The graft of claim 32, wherein the epidermal cells are adjacent to the interior wall of the lumen.
39. (Previously Presented) The graft of claim 32, wherein the interior wall of the lumen is smooth.
40. (Previously Presented) The graft of claim 32, wherein the interior wall of the lumen is porous.
41. (Previously Presented) The graft of claim 32, wherein the interior wall of the lumen is hydrophilic.

42. (Previously Presented) The graft of claim 32, wherein the interior wall of the lumen is hydrophobic.
43. (Previously Presented) The graft of claim 32, wherein the bioabsorbable filament is porous.
44. (Previously Presented) The graft of claim 32, wherein the interior wall of the lumen is coated with a bioabsorbable material.
45. (Previously Presented) The graft of claim 32, wherein the bioabsorbable filament is modified with a modifier selected from the group consisting of angiogenesis factors, growth factors, cell attachment binding site moieties, cell signaling molecules, proteins, glycoproteins, collagen, laminin, and fibronectin.
46. (Previously Presented) The graft of claim 45, wherein the cell attachment binding site moiety is a peptide comprising a cell attachment domain sequence.
47. (Previously Presented) The graft of claim 46, wherein the cell attachment domain sequence is Arg-Gly-Asp.
48. (Previously Presented) A graft comprising (1) a bioabsorbable filament having a central lumen having an interior wall; and (2) cells capable of initiating hair follicle neogenesis comprising epidermal cells and dermal cells, wherein the epidermal cells are adjacent to the interior wall of the lumen, and the dermal cells are located within the lumen.
49. (Withdrawn) A method of inducing the growth of hair comprising implanting into scalp of a patient in need thereof a graft of claim 32.
50. (Withdrawn) The method of claim 49, wherein the epidermal cells and the dermal cells are autologous.
51. (New) The graft of claim 32, wherein the epidermal and dermal cells are derived from different sources.

52. (New) The graft of claim 32, wherein the epidermal cells and dermal cells are present in the graft in an amount and proportion sufficient to initiate hair follicle neogenesis.
53. (New) The graft of claim 32, wherein filament comprises a first end that is closed.
54. (New) The graft of claim 53, wherein the cells are concentrated at the first end.